

DESIGN LOAD CAPACITY – PSF			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	1-7/8" OVERALL	
		INSUL. LAM. GLASS	
		EXT.(+)	INT.(-)
97-11/16	148	65.0	65.0
102		65.0	65.0
108		65.0	65.0
114		65.0	65.0
122		65.0	65.0
97-11/16	156	65.0	65.0
102		65.0	65.0
108		65.0	65.0
114		65.0	65.0
97-11/16	168	65.0	65.0
102		65.0	65.0
108		65.0	65.0
97-11/16	187-3/4	65.0	65.0

AVERAGE PANEL WIDTH = $\frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$

FRAME AREA OF ALTERNATE SIZE UNITS MUST NOT EXCEED
150% OF TESTED FRAME AREA (380.4 X 1.5) SQ. FT.

HS50 ALUMINUM SLIDING GLASS DOOR

DESIGN LOAD RATING FOR THESE DOORS TO BE AS PER CHARTS
SHOWN ABOVE.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE
INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE
DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT
LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS
AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE
MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

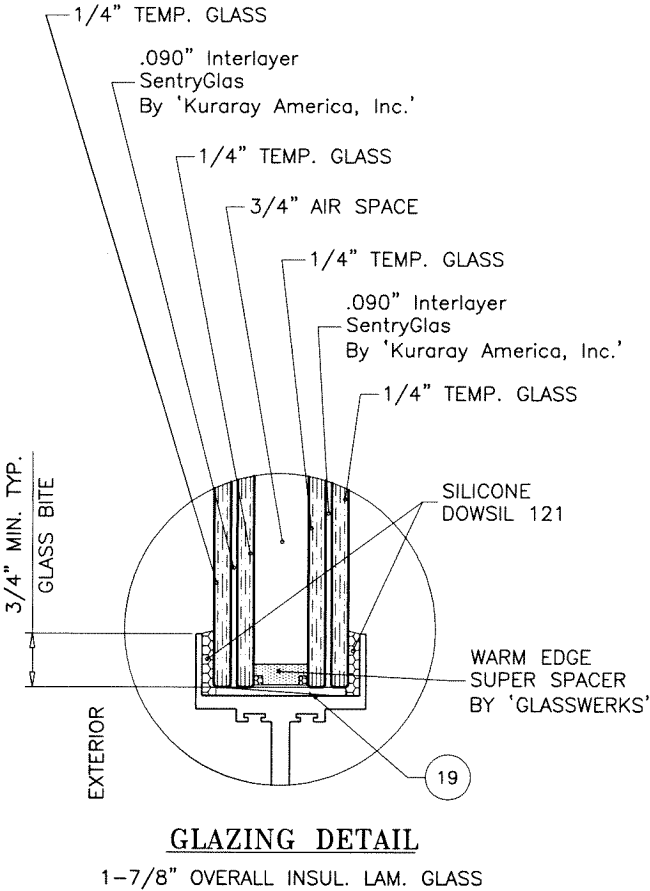
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION
FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY
OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR
WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,
AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION
IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.
LABELING TO COMPLY WITH SECTION 1709.9.2.

NOTE:
GLASS CAPACITIES ARE BASED ON
ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219



THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

Sealed: 2/20/2025

FL #47337

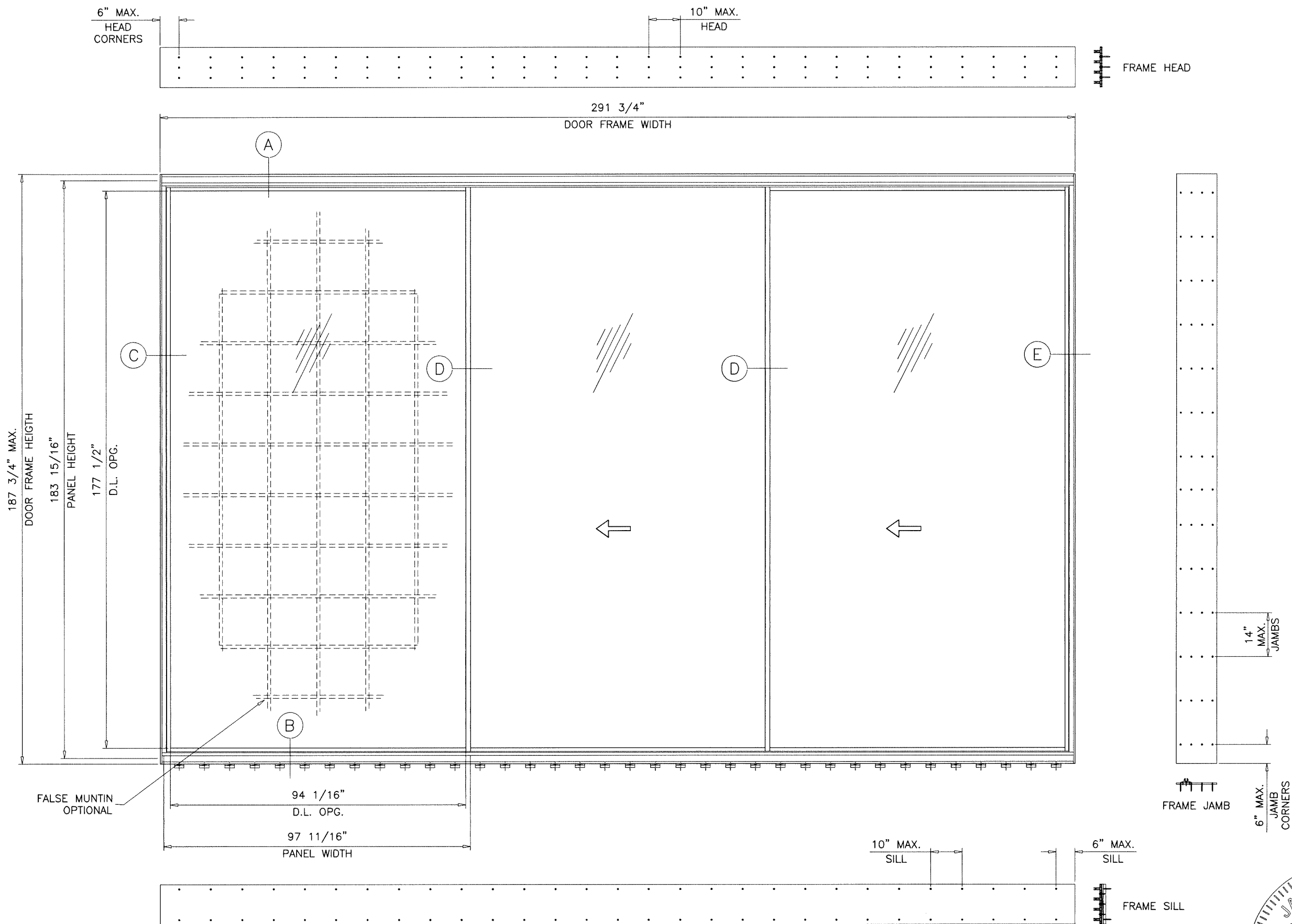
A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND
INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION
PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED
ON THIS DOCUMENT.
B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF
ALTERED BY ANY MEANS.
C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED
ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.)
FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER
USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED
ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE
SPECIFIC DRAWINGS FOR REVIEW.
D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF
THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538
COMP-ANL\25-01F-TW

HS50 ALUMINUM SLIDING GLASS DOOR (L.M.I.)
TITONI WINDOWS
1113 N. McKinley Ave.
Los Angeles, CA 90059
Tel. (310) 954-1516
www.titoniwindows.com

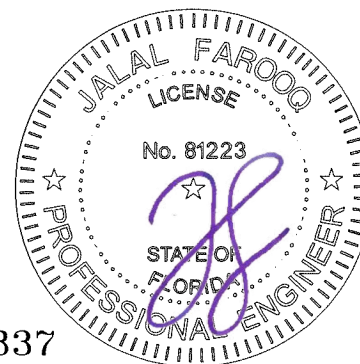
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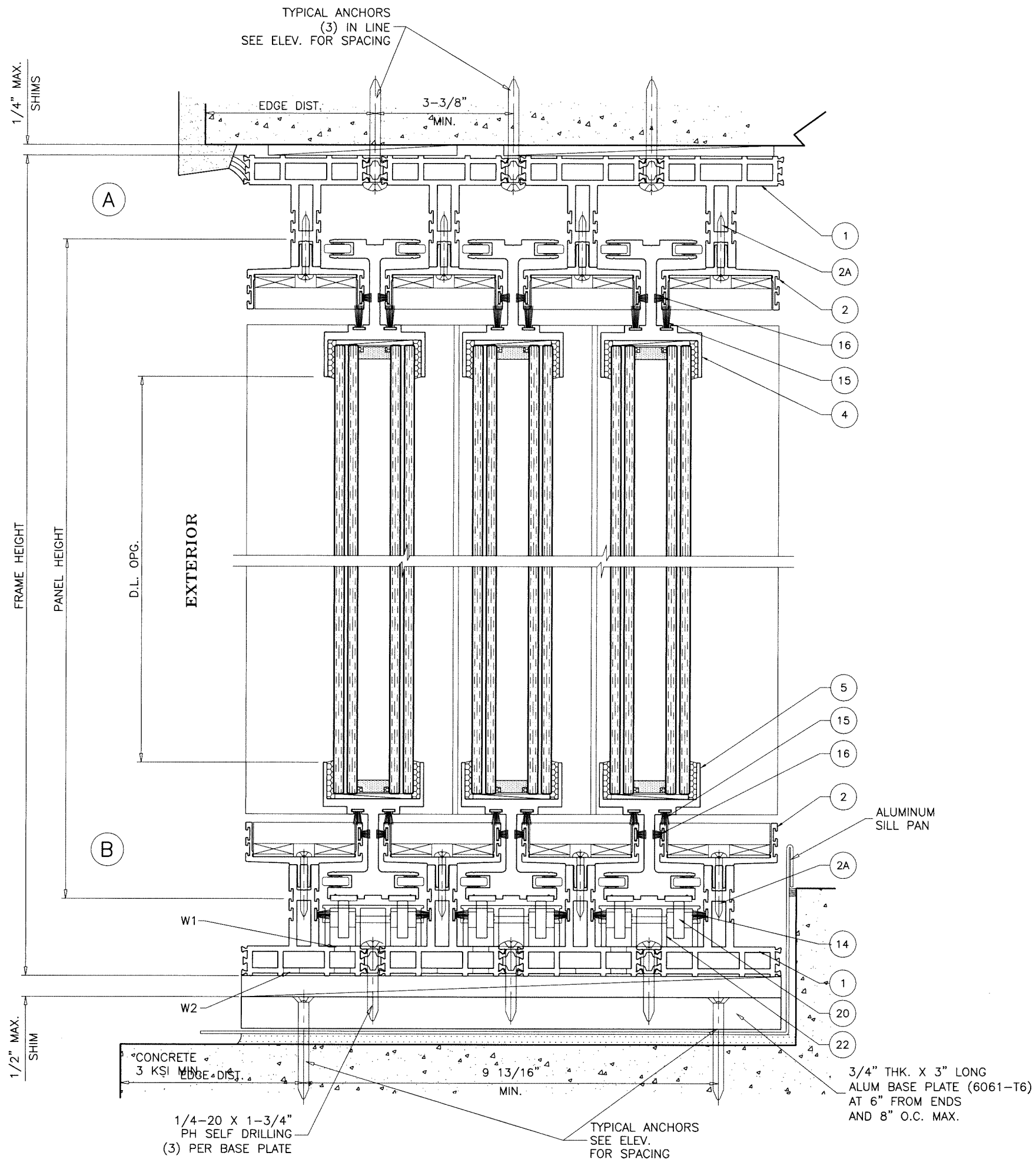
TYPICAL ELEVATION
 OXX (TESTED UNIT)
 APPROVED CONFIGURATIONS (OXX, XXO, OXO, XXX)

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date: 01-01-25 scale: 3/8"=1'-0" dr. by: TARIQ chk. by:	revisions: <table border="1"> <thead> <tr> <th>no</th> <th>date</th> <th>by</th> <th>description</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	no	date	by	description																
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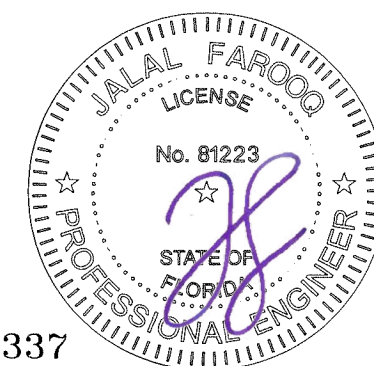
WEEPHOLES:

W1 = 3/8" WEEP HOLES IN (3) ROWS
AT 7" FROM ENDS & 46" O.C.

W2 = 3/8" WEEP HOLES IN (6) ROWS
AT 7" FROM ENDS & 46" O.C.

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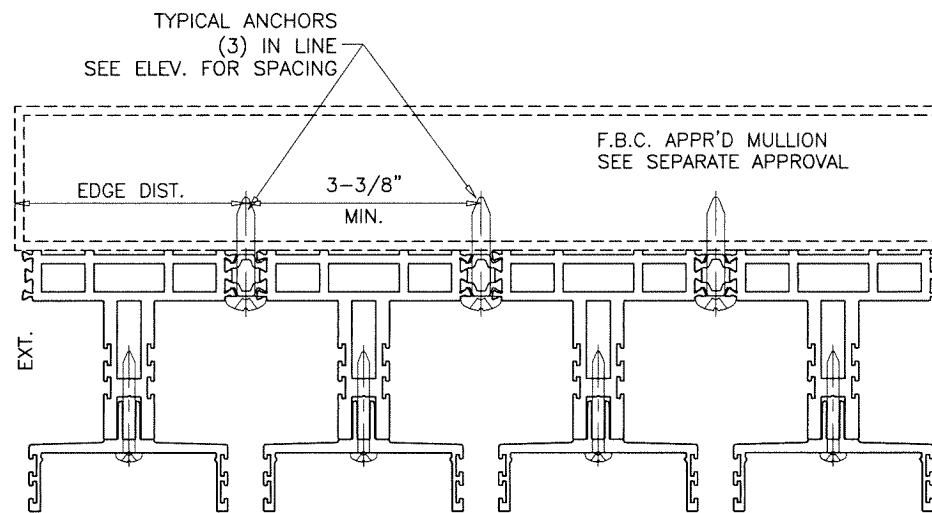
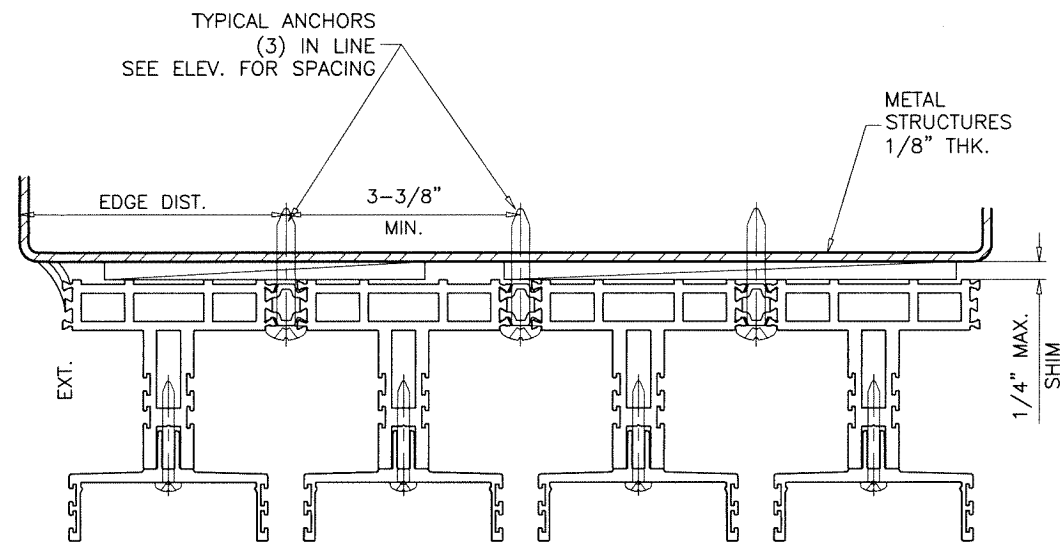


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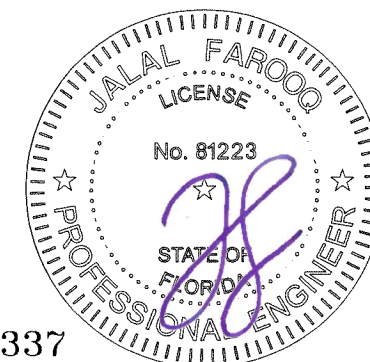


METAL STRUCTURE NOT BY 'TITONI WDW.'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 AND
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
CRITICAL EDGE DISTANCE
 INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 1/2" MIN.
 WOOD AT JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

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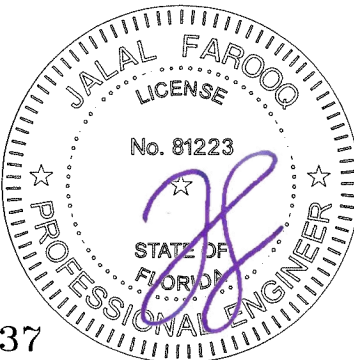
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ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	TW5809	2	FRAME HEAD/SILL	6063-T6	-
2	-	AS REQD.	HEAD/SILL ADAPTER	6063-T6	-
2A	#10 X 1-1/2"	AS REQD.	ADAPTER FASTENERS	ST. STEEL	PH SMS
3	-	2	JAMB BAR	6061-T6	-
4	TW5810	AS REQD.	TOP RAIL	6063-T6	-
5	TW5811	AS REQD.	BOTTOM RAIL	6063-T6	-
6	TW5817	2	JAMB GUIDE	6063-T6	-
6A	10-24 X 1-1/4"	AS REQD.	GUDE FASTENERS	ST. STEEL	FH SMS
7	-	AS REQD.	GUIDE ANGLE	STEEL	A36, Fu MIN. = 58 KSI
7A	10-24 X 1"	AS REQD.	ANGLE FASTENERS, AT 4" FROM ENDS & 24" O.C.	ST. STEEL	PH SMS
8	TW5816R	AS REQD.	FIXED STILE	6063-T6	-
9	TW5816	AS REQD.	MOVING STILE	6063-T6	-
10	TW5812	AS REQD.	INTERLOCK	6063-T6	-
11	-	AS REQD.	INTERLOCK REINF.	STEEL	C1018 STEEL, Fu = 63.8 KSI
12	P1	AS REQD.	FIN SEAL W'STRIPPING	WOOL	-
13	P2	AS REQD.	FIN SEAL W'STRIPPING	WOOL	-
14	P3	AS REQD.	FIN SEAL W'STRIPPING	WOOL	-
15	P4	AS REQD.	FIN SEAL W'STRIPPING	WOOL	-
16	P5	AS REQD.	FIN SEAL W'STRIPPING	WOOL	-
17	G1	AS REQD.	BULB W'STRIPPING	VINYL	-
18	G2	AS REQD.	BULB W'STRIPPING	VINYL	-
19	-	2/ LITE	1/16" THK. SETTING BLOCK AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
20	-	2/ MOV. PANEL	ROLLER ASSEMBLY	-	-
21	-	1	LOCK	-	-
22	TW5813	AS REQD.	PANEL BASE	6063-T6	-
23	TW5815	AS REQD.	GLASS CRADLE	6063-T6	-

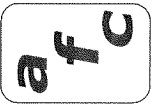
SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.



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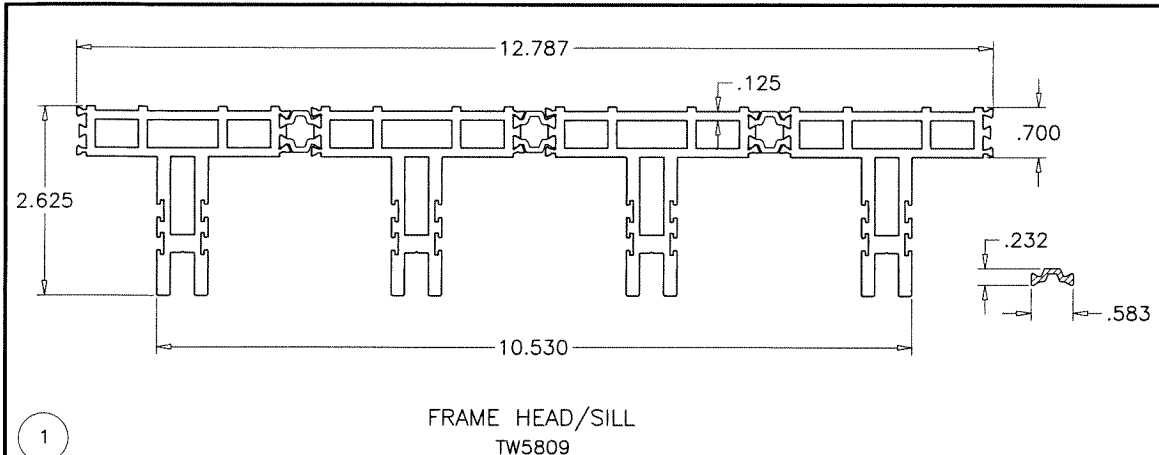
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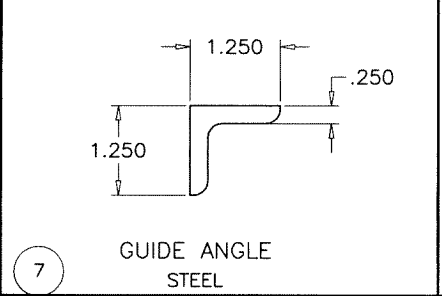
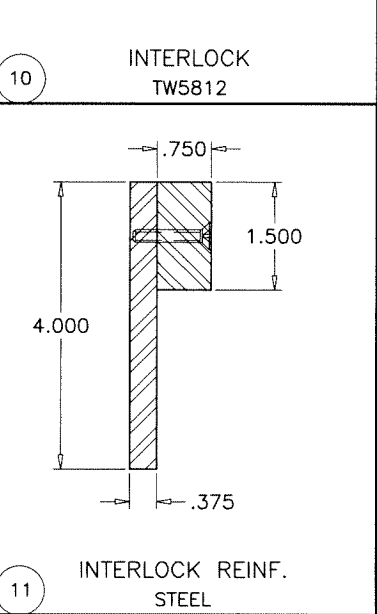
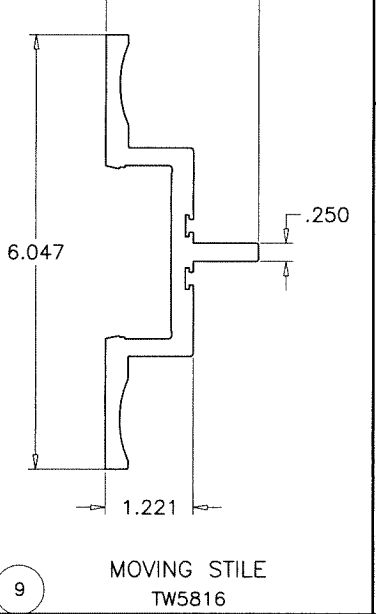
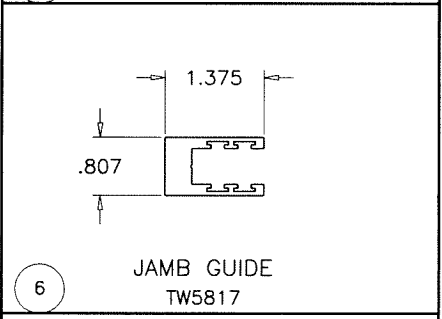
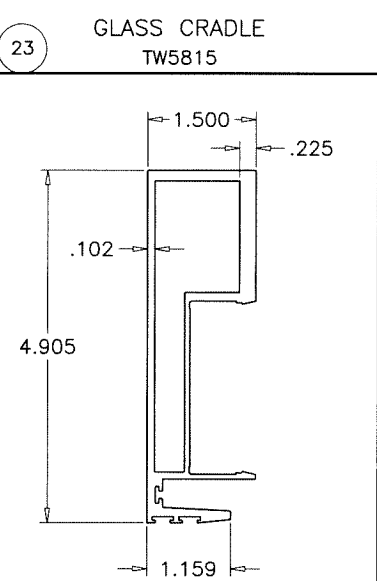
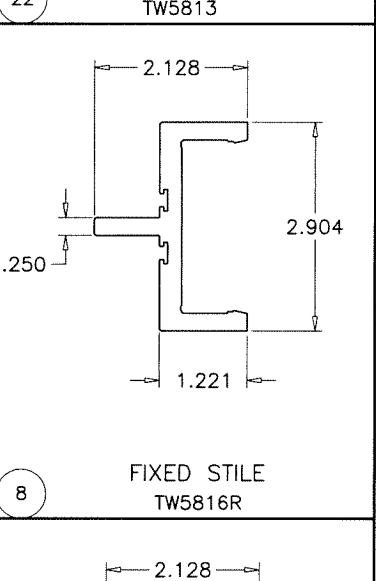
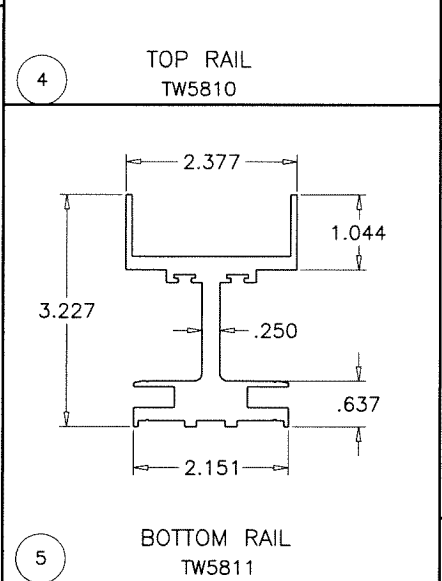
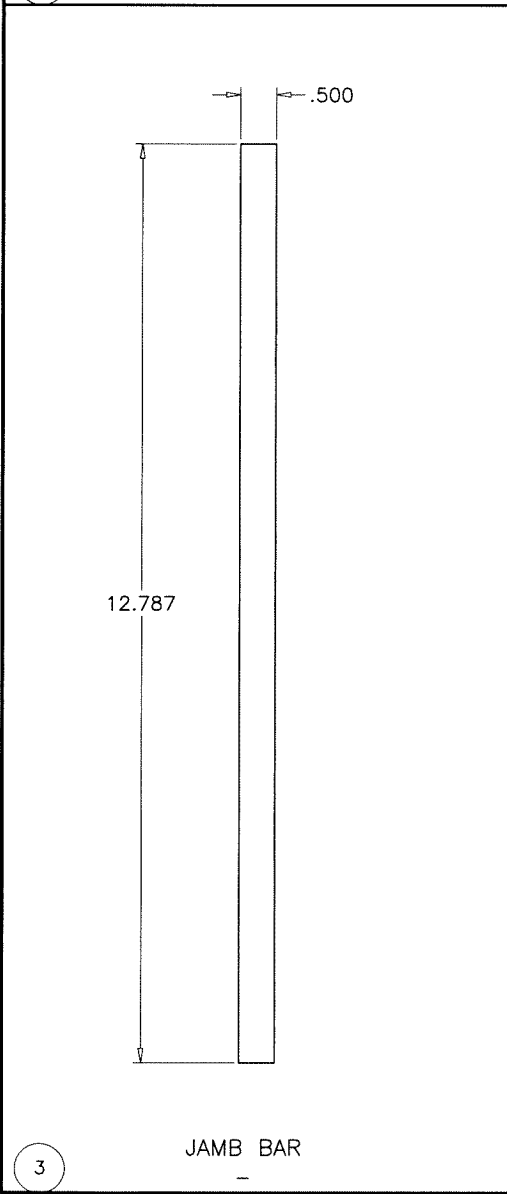
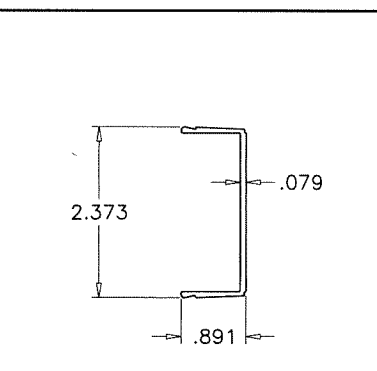
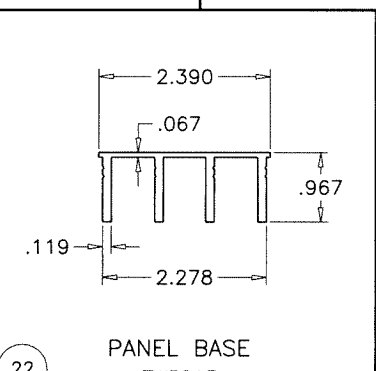
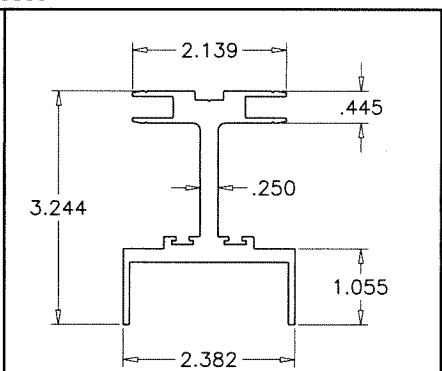
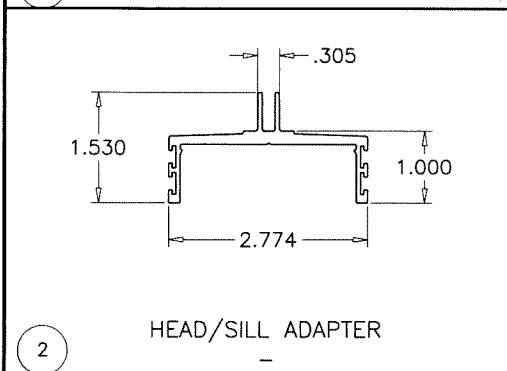
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INSULBARS
 MATERIAL = POLYAMIDE
 TENSILE STRENGTH = 13031 PSI
 RATE OF BURN = .752 IN./MIN.
 SELF IGNITION TEMP. = 793° F
 FLASH IGNITION TEMP. = 781°C
 SMOKE DENSITY = 1.63



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